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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/803,630

03/18/2004

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EXAMINER

RAYYAN, SUSAN F

ART UNIT

PAPER NUMBER

2167

DATE MAILED: 10/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/803,630

Applicant(s)

FOCAZIO ET AL.

Examiner

Susan F. Rayyan

Art Unit

2167

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14, 19-24 is/are rejected.
- 7) ☒ Claim(s) 15-18 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>03182004.09252006</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-24 are pending.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on March 18, 2004 and September 25, 2006 were filed before First Office Action. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent Application Publication Number 2004/0181537 issued to Rajesh Chawla et al ("Chawla") and US Patent Number 6,801,915 issued to Robert Mack ("Mack"). As per independent claim 1 Chawla teaches:

detecting a response from a data store (paragraph 97-98, any result is retrieved);
and placing the ... value in the response (paragraph 98, the result set is return to the end user client).

Chawla does not explicitly teach responsive to detecting the response, locating a merge reference section in a singleton in-memory object, identifying a merge reference from the merge reference section, determining a reference column from the merge reference and merging data with the reference column to form a merged value according to an order. Mack does teach this limitation (column 23, lines 34-67, merge reference method and column values) to improve and maintain the quality of the data contained in the database. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Chawla with responsive to detecting the response, locating a merge reference section in a singleton in-memory object, identifying a merge reference from the merge reference section, determining a reference column from the merge reference and merging data with the reference column to form a merged value according to an order to improve and maintain the quality of the data contained in the database (column 3, lines 23-24).

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As per claim 2, same as claim arguments above and Chawla teaches:

wherein detecting a response from the data store includes receiving a result from an adapter after execution of a query statement (paragraph 54, 93, 96).

As per claim 3, same as claim arguments above and Chawla teaches:

wherein the singleton in-memory object is implemented as a configuration Java bean (paragraph 25, Java).

As per claim 4, same as claim arguments above and Mack teaches:

wherein identifying a merge reference from the merge reference section includes determining whether an identifier of the merge reference matches a requested field from a plurality of requested fields in the response (column 23, lines 23-27, as form consolidated data records).

As per claim 5, same as claim arguments above and Mack teaches:

wherein merging data with the reference column to form the merged value according to the order includes combining a value of the requested field with a value of the reference column (column 23, lines 23-33).

As per claim 6, same as claim arguments above and Mack teaches:

wherein determining a reference column from the merge reference includes locating the reference column from a plurality of columns in the data store according to a value element of the merge reference (column 23, lines 47-67, column value).

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As per claim 7, same as claim arguments above and Mack teaches:

wherein the order is located in an order element of the merge reference (column 23, lines 13-14).

As per claim 8, same as claim arguments above and Mack teaches:

wherein the merge reference section includes a plurality of merge references (column 23, lines 23-25).

As per claim 9, same as claim arguments above and Chawla teaches:

wherein the response is a message formatted using an extensible markup language (paragraph 10, 32-33).

As per independent claim 10, Chawla teaches a method in a data processing system

for executing a request on a data store (Abstract) the method comprising:

receiving a request containing data (paragraph 84,96).

Chawla does not explicitly teach ... locating a split reference section in a singleton in-memory object, identifying a split reference from the split reference section, determining a reference column from the split reference, extracting a value from the data and placing the value in the reference column according to an order. Mack does teach this limitation t column 24, lines 4-5, 21-30 and 47-57, as split reference data method) to improve and maintain the quality of the data contained in the database. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Chawla with ... locating a split reference section in a singleton in-memory object, identifying a split reference from the split reference section,

determining a reference column from the split reference, extracting a value from the data and placing the value in the reference column according to an order to improve and maintain the quality of the data contained in the database (column 3, lines 23-24).

As per claim 11, same as claim arguments above and Chawla teaches:

wherein the singleton in-memory object is implemented as a configuration Java bean(paragraph 25, Java).

As per claim 12, same as claim arguments above and Mack teaches:

wherein the split reference section includes a plurality of split references (column 24, lines 17-20).

As per claim 13, same as claim arguments above and Mack teaches:

wherein identifying the split reference includes determining whether an identifier of the split reference matches a requested field from a plurality of requested fields in the request (column 24, lines 24-30, ID column).

As per claim 14, same as claim arguments above and Mack teaches:

wherein determining the reference column includes locating the column from a plurality of columns in the data store according to a value element of the split reference (column 24, lines 17-30).

As per claim 19, same as claim arguments above and Chawla teaches:

wherein the request is an extensible markup language request message(paragraph 10, 32-33).

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As per claim 20, same as claim arguments above and Mark teaches:

wherein determining a reference column further comprises determining a plurality of reference columns...extracting a plurality of values... and a second value of the plurality of values is placed in a second column of the plurality of columns (column 23, lines 47-67).

Claim 21 is rejected based on the same rationale as claim 10.

As per claim 22, same as claim arguments above and Chawla teaches:

wherein the singleton in-memory object is a Java bean(paragraph 25, Java).

Claim 23 is rejected based on the same rationale as claim 10.

As per claim 24, same as claim arguments above and Chawla teaches:

wherein the singleton in-memory object is a Java bean(paragraph 25, Java).

Allowable Subject Matter

4. Claims 15-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Contact Information


5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan Rayyan whose telephone number is (571) 272-1675. The examiner can normally be reached M-F: 8am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cottingham can be reached on (571) 272-7079. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Susan Rayyan

September 26, 2006


JOHN COTTINGHAM
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